

FIG. 1

ACS client library
Set-top application

National® Brand
42-382 100 SHEETS EYE EASE 5" SQUARE
42-382 200 SHEETS EYE EASE 5" SQUARE
42-399 100 RECYCLED WHITE 5" SQUARE
42-399 200 RECYCLED WHITE 5" SQUARE
Made in U.S.A.

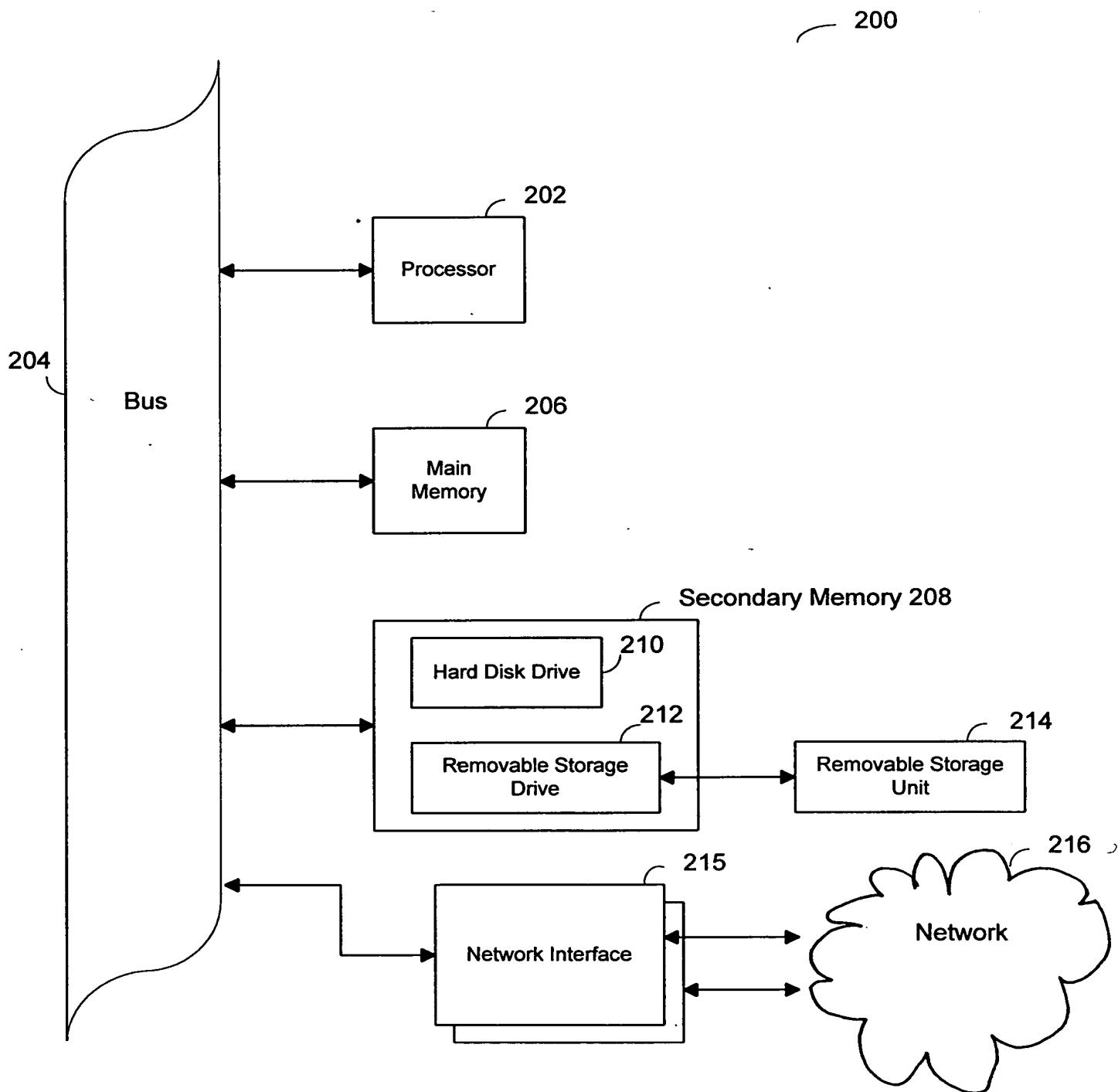


FIG. 2

13-782 500 SHEETS FILLER 5 SQUARE
50 SHEETS EYE EASE 5 SQUARE
42-381 100 SHEETS EYE EASE 5 SQUARE
42-382 200 SHEETS EYE EASE 5 SQUARE
42-389 100 RECYCLED WHITE 5 SQUARE
42-392 200 RECYCLED WHITE 5 SQUARE
42-399
Made in U.S.A.

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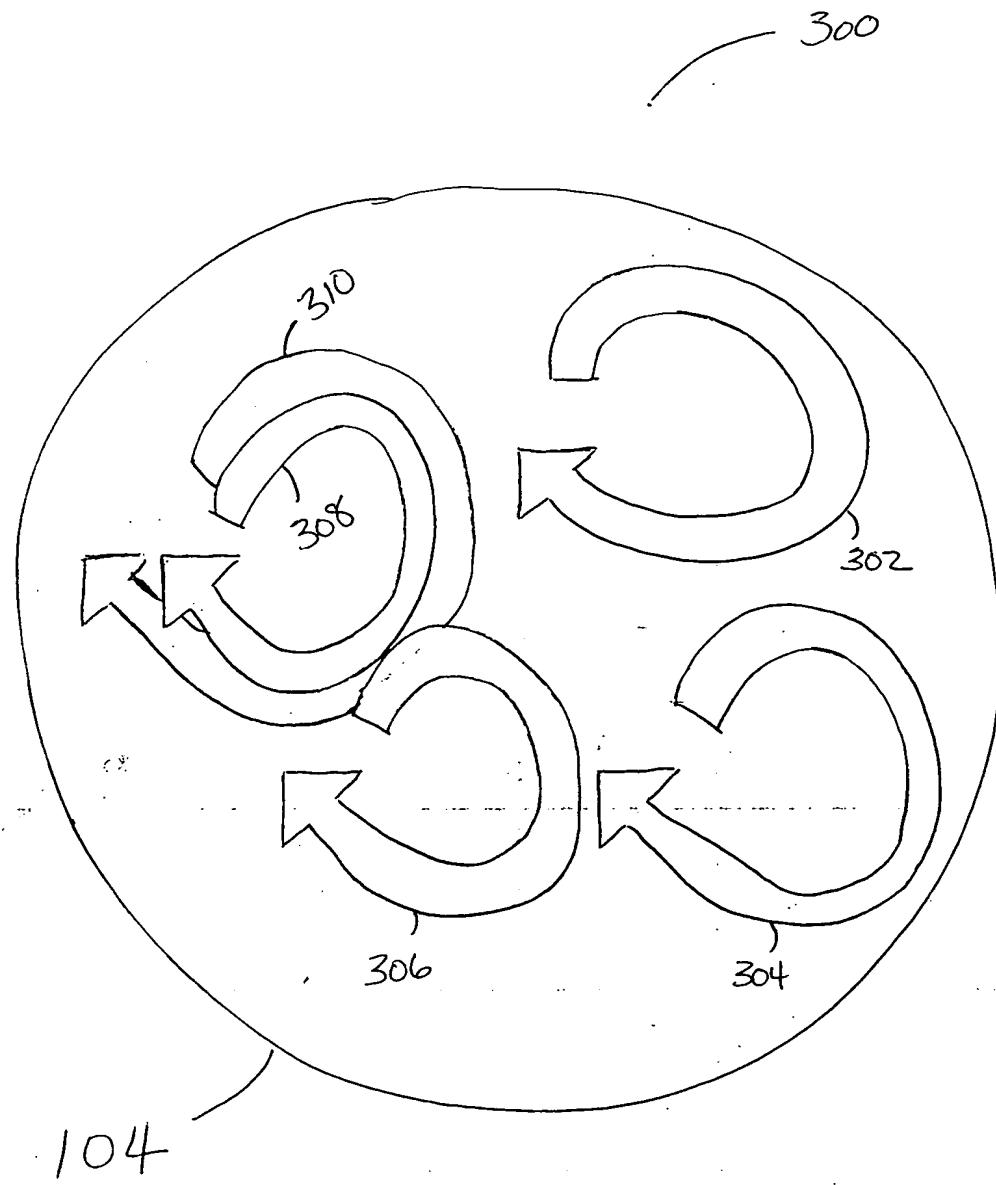


FIG. 3

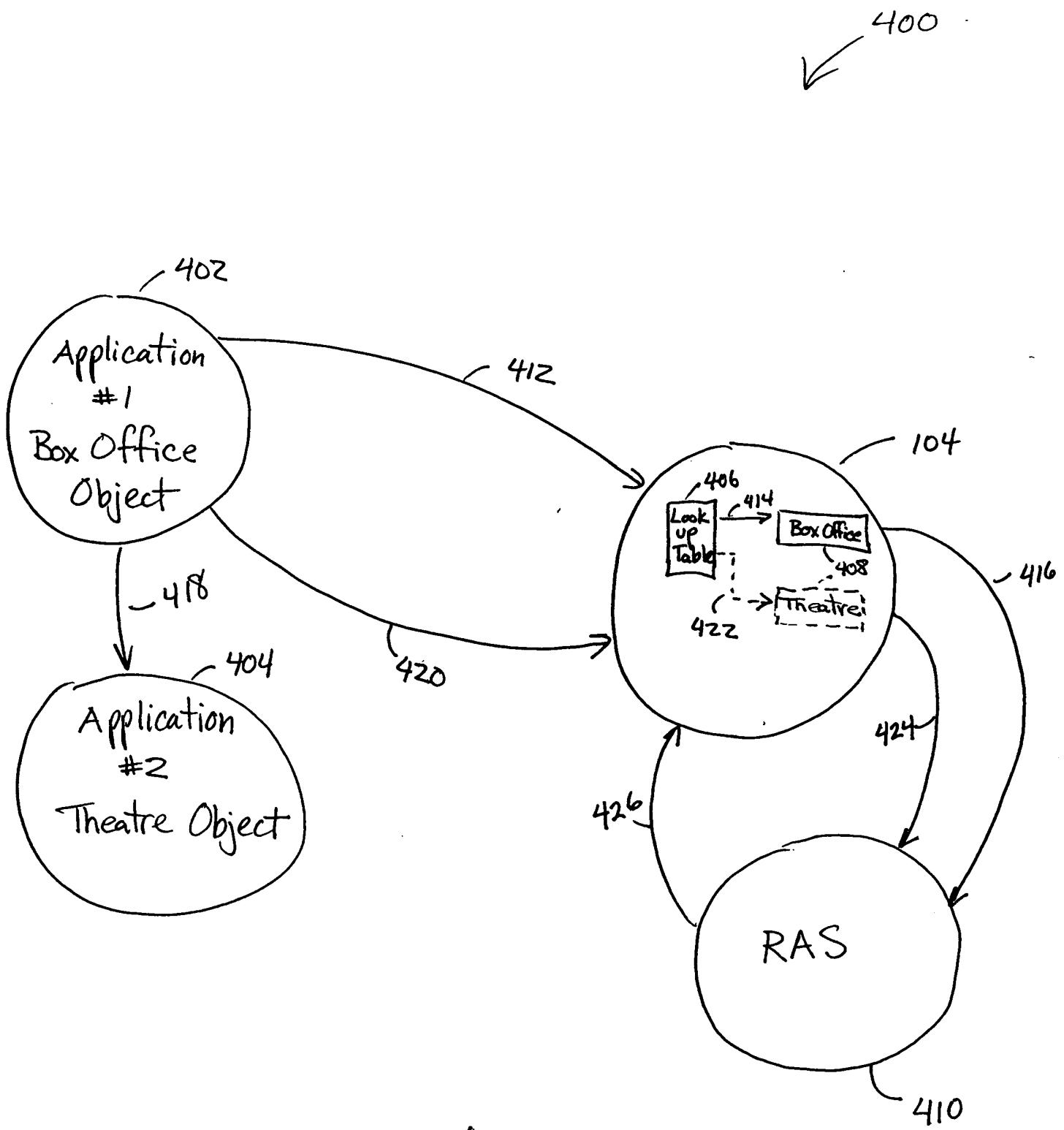


FIG 4

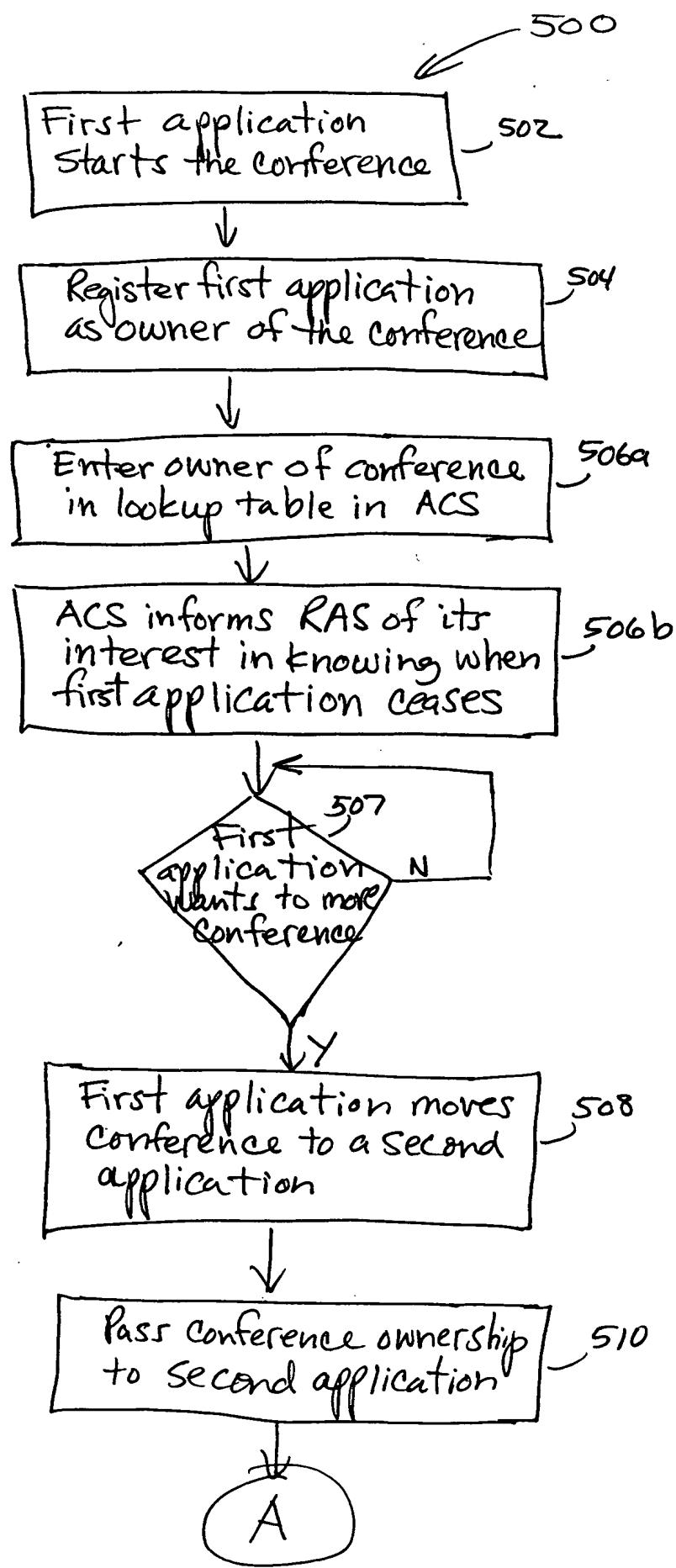


FIG. 5A

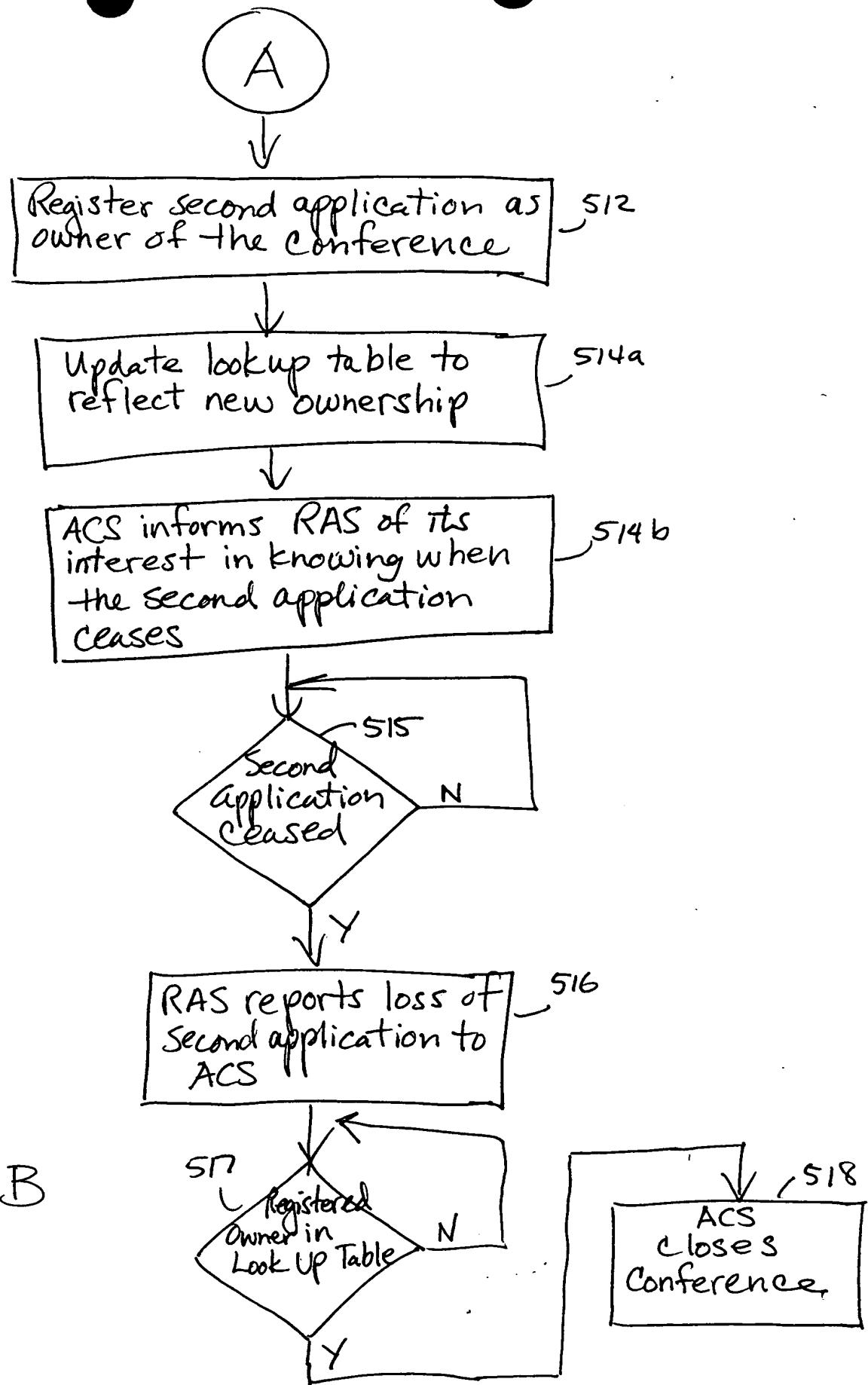


FIG. 5B

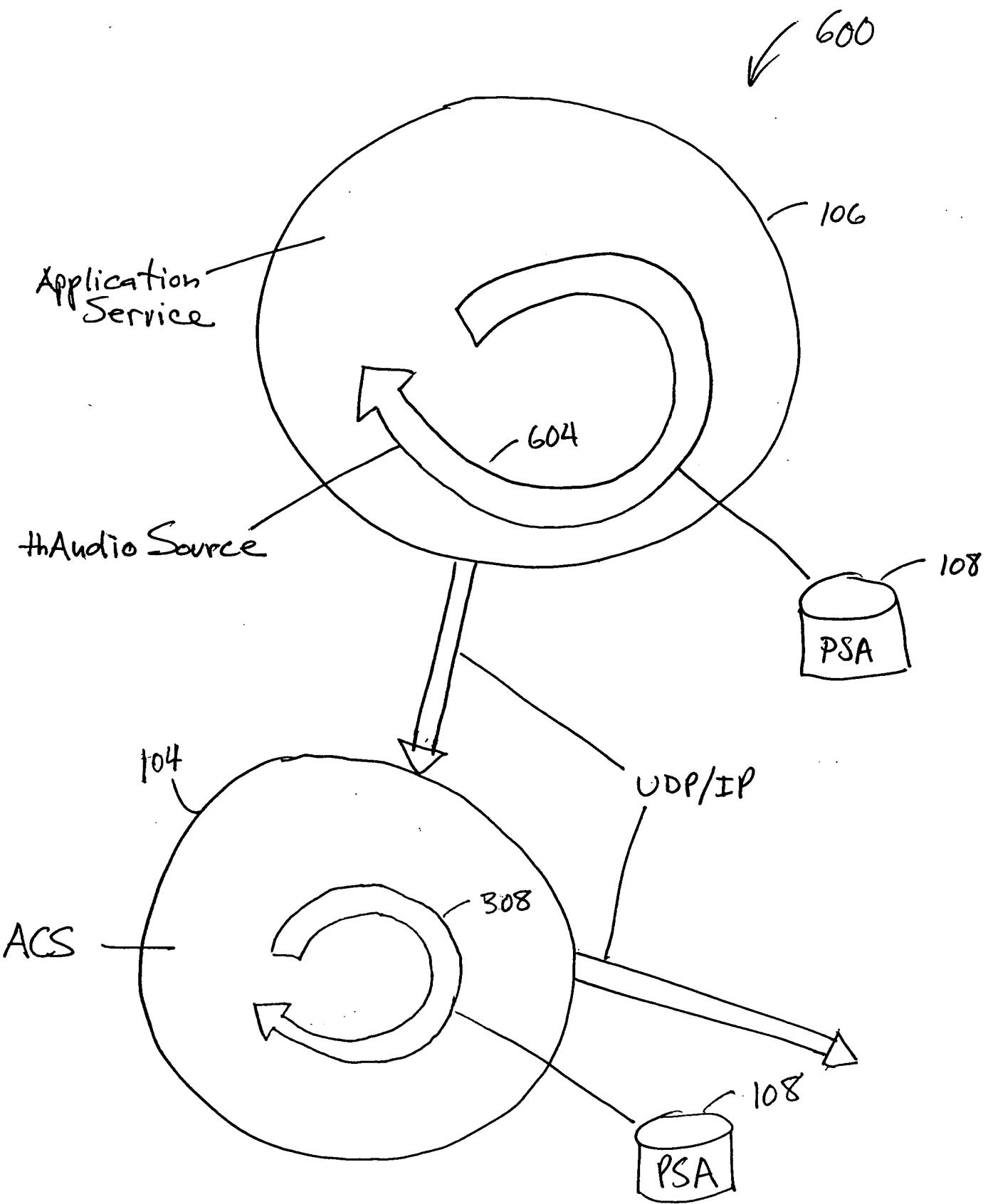


FIG. 6

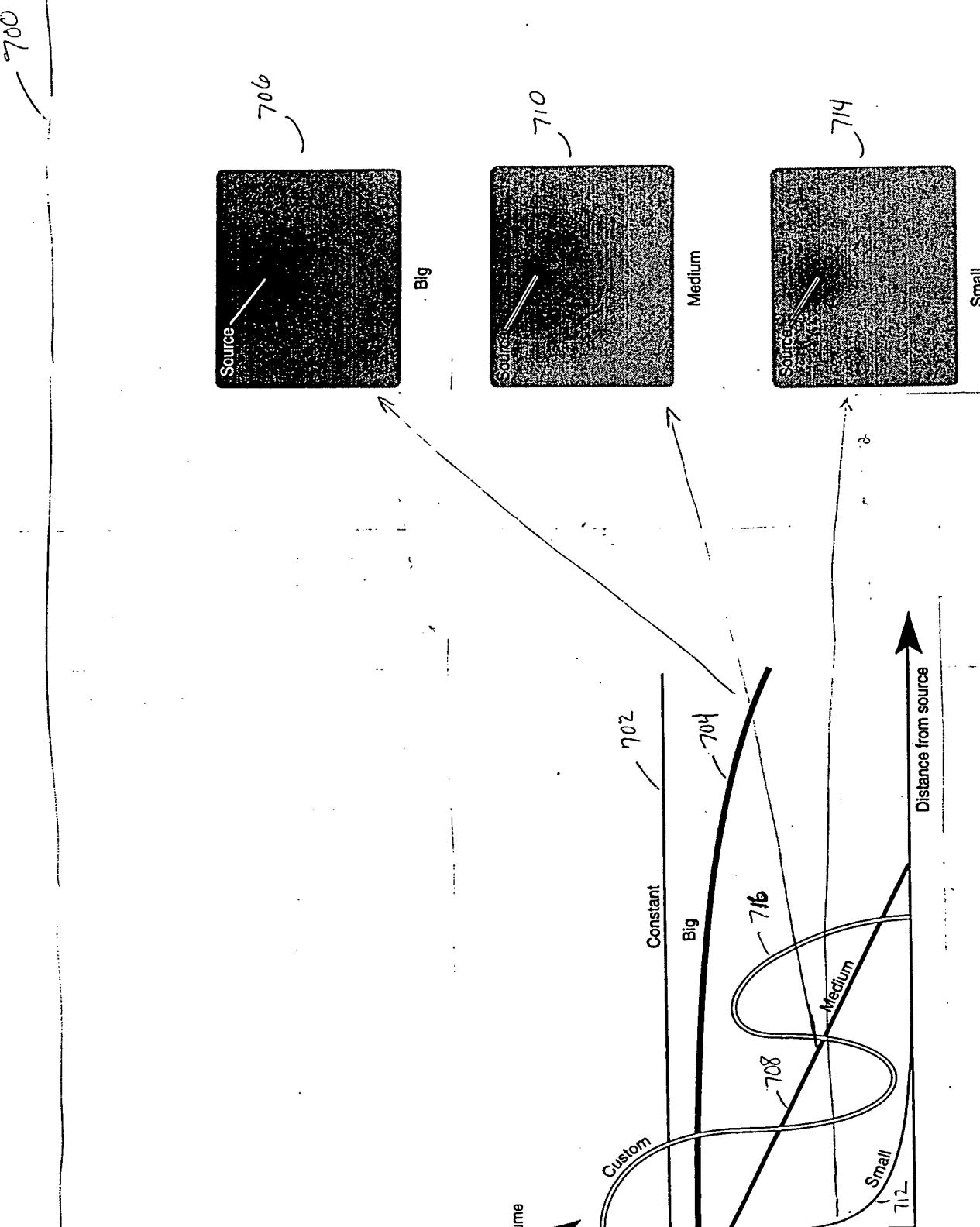


FIG. 7

✓ 800

Source	audio1	audio2	audio3	
Target	audio1	0.0	1.0	0.7
audio1	0.0	1.0	0.7	
audio2	0.8	0.0	0.5	
audio3	0.5	0.5	0.0	

802 804 806

808

$$\text{audio1} = \text{audio1} * 0.0 + \text{audio2} * 1.0 + \text{audio3} * 0.7$$

$$\text{audio2} = \text{audio1} * 0.8 + \text{audio2} * 0.0 + \text{audio3} * 0.5$$

$$\text{audio3} = \text{audio1} * 0.5 + \text{audio2} * 0.5 + \text{audio3} * 0.0$$

FIG. 8

13-782 500 SHEETS, FILLER, 5 SQUARE
42-361 50 SHEETS, EGG SHEET
42-362 100 SHEETS, EGG SHEET
42-363 200 SHEETS, EGG SHEET
42-392 100 RECYCLED, WHITE, SQUARE
42-399 200 RECYCLED, WHITE, SQUARE
Made in U.S.A.

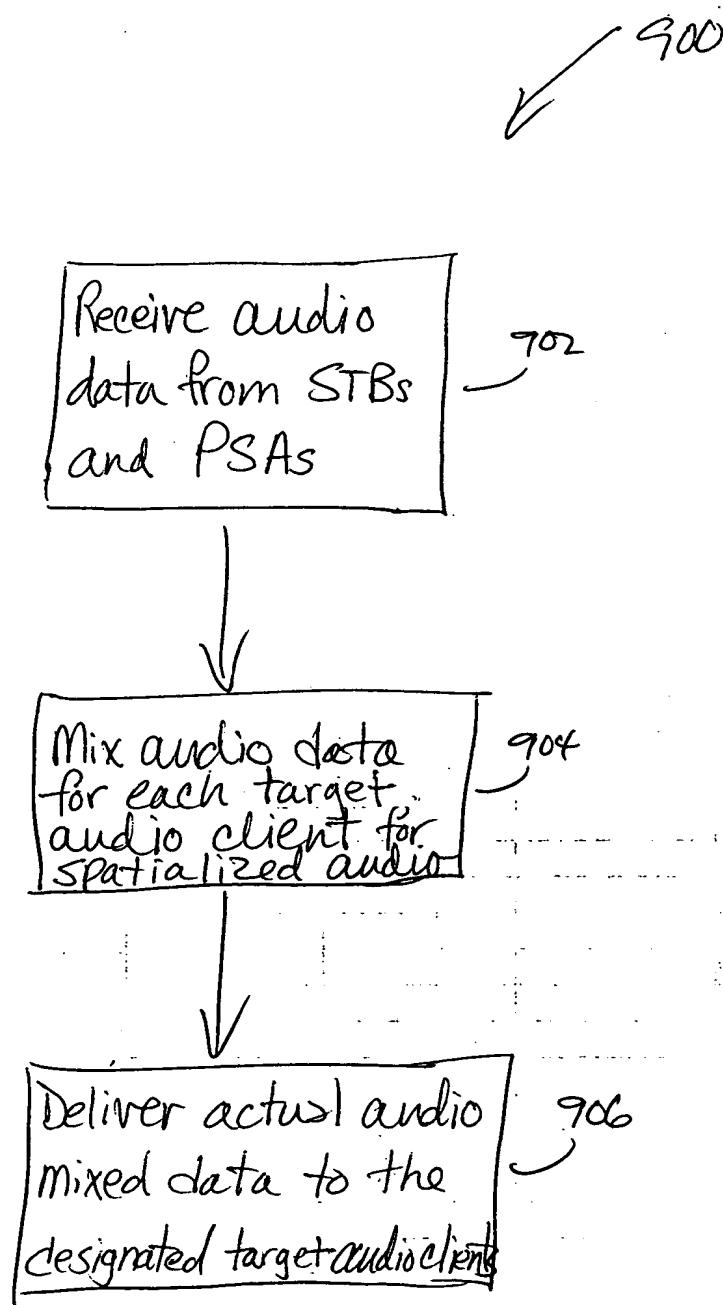


FIG. 9A

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42-399
500 SHEETS FILLER 5 SQUARE
50 SHEETS EYE EASY 5 SQUARE
100 SHEETS EYE EASY 5 SQUARE
200 SHEETS EYE EASY 5 SQUARE
100 RECYCLED WHITE 5 SQUARE
Made in U.S.A.

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500 SHEETS FILLER 5 SQUARE
50 SHEETS EYE EASY 5 SQUARE
100 SHEETS EYE EASY 5 SQUARE
200 SHEETS EYE EASY 5 SQUARE
100 RECYCLED WHITE 5 SQUARE
Made in U.S.A.

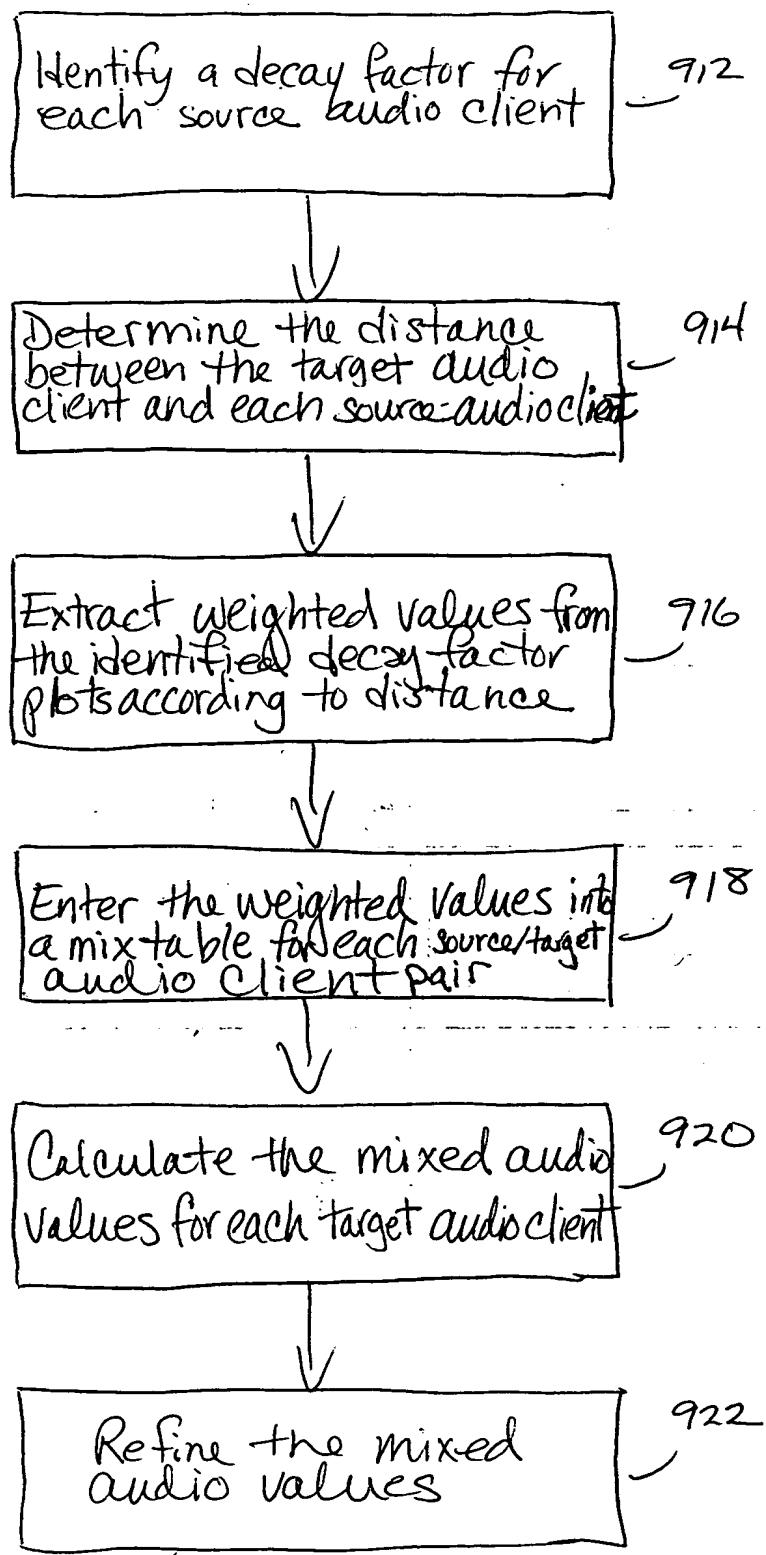


FIG. 9B

1000

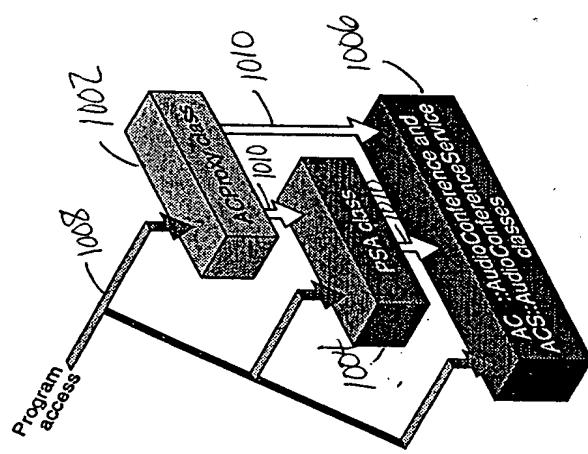


Fig. 10

ACProxy Class Methods ~ 1100

Method	Description
1102 ACProxy()	Opens the audio conference.
1104 ~ACProxy()	Cleans up and closes the audio conference.
1106 AddClient()	Adds set-top audio client to the conference.
1108 AddPSA()	Adds a PSA audio client to the conference.
1110 Audios()	Lists audio client IDs in the conference.
1112 DemuteAudio()	Enables audio of the PSA.
1114 GetAudioLocation()	Locates X,Y coordinates of an audio client.
1116 GetConfInfo()	Retrieves audio conference information.
1118 MoveAudio()	Moves audio source to a specified location.
1120 MuteAudio()	Disables audio of the PSA.
1122 RegisterOwner()	Transfer owner of the audio conference using the object reference.
1124 RegisterOwnerByName()	Transfer owner of the audio conference using the name of the application as exported by the Name Space.
1126 RemoveAudio()	Removes the audio client.
1128 UnregisterOwner()	Removes previous ownership of the audio conference.

Fig. 11

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PointSourceAudio Class Methods ~ 1200

Method	Description
1202 ~PointSourceAudio()	Class constructor. Instantiates a PSA object.
1204 ~PointSourceAudio()	Cleans up resources, closes the device used by a PSA.
1206 Play()	Plays the audio source.
1208 Stop()	Stops playing the audio source.
1210 ~Pause()	Pauses the playing of the audio source.
1212 ~Resume()	Resumes playing the audio source.

Fig. 12

13-782 500 SHEETS FILLER 5 SQUARE
42-392 50 SHEETS EYE EASE 5 SQUARE
42-392 100 SHEETS EYE EASE 5 SQUARE
42-392 200 SHEETS EYE EASE 5 SQUARE
42-392 100 RECYCLED WHITE 5 SQUARE
42-392 200 RECYCLED WHITE 5 SQUARE
Made in U.S.A.

1300
The ACS::AudioConferenceService methods

- 1302 • **OpenConference()** — creates an audio conference.
- 1304 • **CloseConference()** — closes an audio conference.
- 1306 • **GetConferenceByTicket()** — finds the conference name given the ticket number.
- 1308 • **ListConference()** — returns a sequence of conference objects.
- 1310 • **HctAudioStat()** — finds information about a set-top audio client.

Fig. 13

The ACS::AudioConference methods

1402 ~ • **NewAudio()** — creates an audio client for a given set-top box.

1404 ~ • **DeleteAudio()** — deletes an audio client.

1406 ~ • **RegisterOwner()** — registers conference owner by object reference

1408 ~ • **RegisterOwnerByName()** — registers conference owner by export name

1410 ~ • **UnregisterOwner()** — removes a registered conference ownership

1412 ~ • **SetMixOne()** — sets the volume of the conversation between two audio clients.

1414 ~ • **SetMix()** — sets the volume of the conversations between many audio client pairs.

1416 ~ • **GetMixOne()** — returns the volume setting between two audio client pairs.

1418 ~ • **GetMix()** — returns the volume settings between many audio client pairs.

1420 ~ • **SetTimeOut()** — sets a number of seconds of inactivity, after which the conference is closed automatically. It can be set to never close.

1422 ~ • **GetTimeOut()** — finds the length in seconds of the timeout.

1424 ~ • **AudioIds()** — gets a list of audio IDs in a conference.

1426 ~ • **AudioStat()** — gets information about an audio client given the audio ID.

1428 ~ • **ConfStat()** — gets information about an audio conference.

1430 ~ • **HctAudioStat()** — gets information about an audio client given the set-top ID.

1432 ~ • **Ping()** — pings a given audio conference and returns an exception if the conference doesn't exist.

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FIG. 14

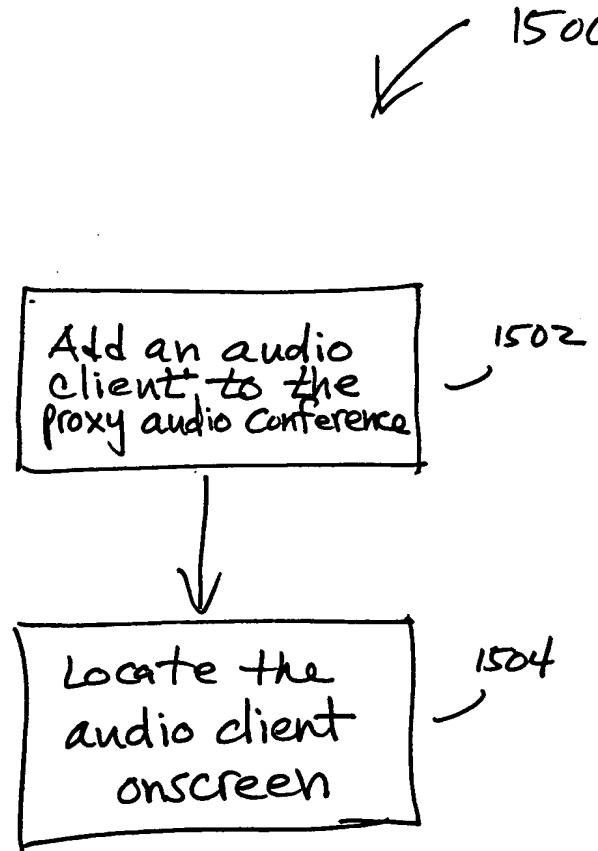


FIG. 15

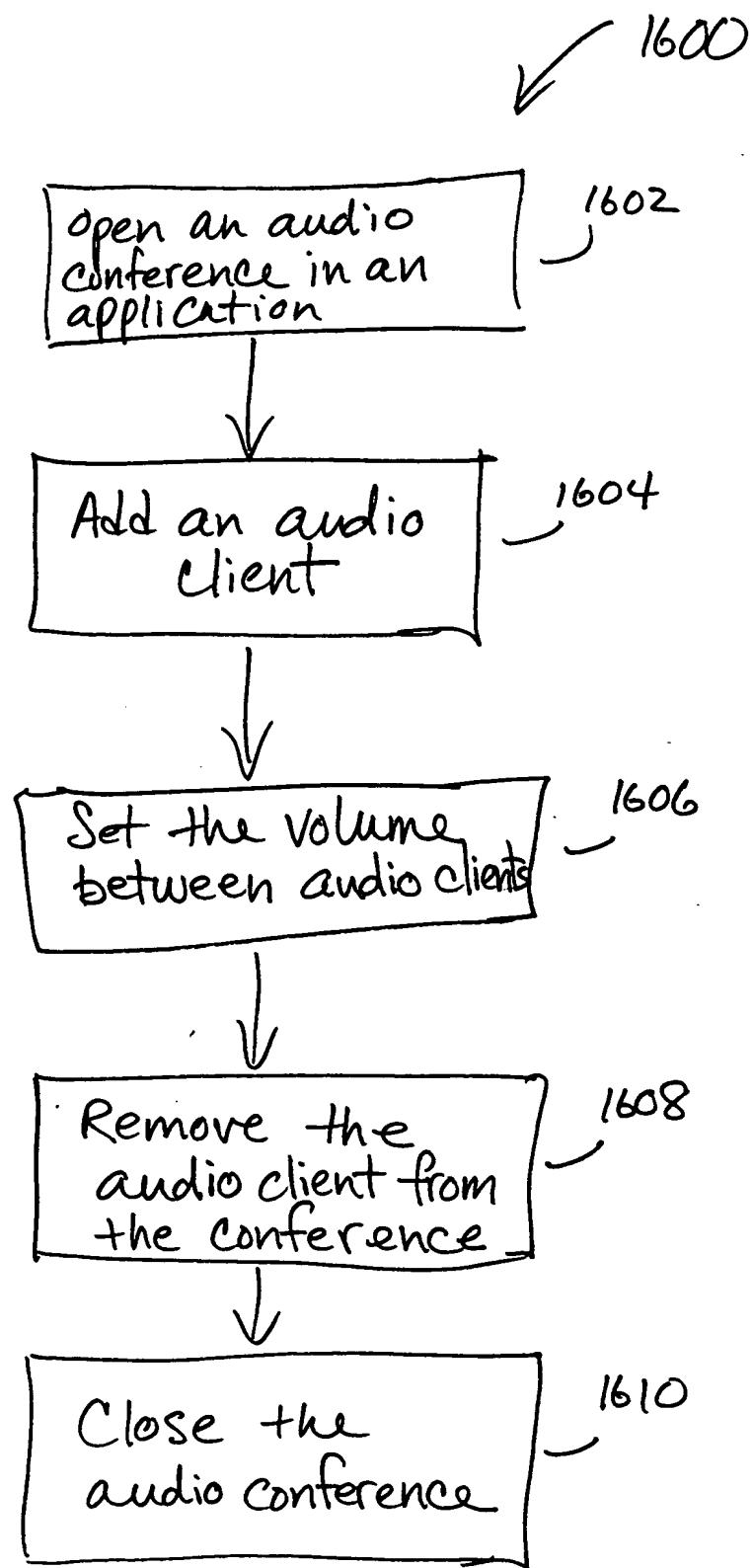


FIG. 16